

Lorena Buono

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Current Position: Ricercatore III° livello

Current Affiliation:

Department of Biology and Evolution of Marine Organisms, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University “Federico II”, Napoli (Italy)	BSc	2007-2011	Biology
University “Federico II”, Napoli (Italy)	MSc	2011-2014	Biology
Andalusian Centre of Developmental Biology (Sevilla, Spain)	PhD	2015-2020	Developmental Biology
Department of “Biology and Evolution of Marine Organisms”, Stazione Zoologica Anton Dohrn, Napoli (Italy)	Postdoc	2020-2021	Bioinformatics; Developmental Biology; Evolutionary Biology
Department of “Biotechnology and computational methods serving personalized medicine” Synlab-IRCSS SDN, Napoli (Italy)	Researcher	2021-2023	Bioinformatics; Oncology
Department of “Precision Medicine”, University “Luigi Vanvitelli”, Napoli (Italy)	Researcher	2023-2023	Bioinformatics; Genetics
Department of “Biology and Evolution of Marine Organisms”, Stazione Zoologica Anton Dohrn, Napoli (Italy)	Researcher	2023- Present	Bioinformatics; Developmental Biology; Evolutionary Biology

Publications

Author of 20 publications on ISI-journals (h index: 12).

Complete list of publications can be found here:

https://scholar.google.com/citations?hl=it&user=c8xirEgAAAAJ&view_op=list_works&sortby=pubdate

List of relevant publications of the last 5 years:

1. Letelier J#, **Buono L#**, Almuedo-Castillo M, Zang J, Mounieres C, González-Díaz S, Polvillo R, Sanabria-Reinoso E, Corbacho J, Sousa-Ortega A, Diez Del Corral R, Neuhauss SCF, Martínez-Morales JR. Mutation of *vsx* genes in zebrafish highlights the robustness of the retinal specification network. *Elife*. 2023 May 25;12:e85594. **#Authors equally contributed**

2. Sousa-Ortega A, Vázquez-Marín J, Sanabria-Reinoso E, Corbacho J, Polvillo R, Campoy-López A, **Buono L**, Loosli F, Almuedo-Castillo M, Martínez-Morales JR. A Yap-dependent mechanoregulatory program sustains cell migration for embryo axis assembly. *Nat Commun*. 2023 May 16;14(1):2804.
3. Corbacho J, Sanabria-Reinoso E, **Buono L**, Fernández-Miñan A, Martínez-Morales JR. Trap-TRAP, a Versatile Tool for Tissue-Specific Translatomics in Zebrafish. *Front Cell Dev Biol*. 2022 Jan 31;9:817191.
4. **Buono L**, Iside C, De Matteo A, Stellato P, Beneduce G, de Vera d'Aragona RP, Parasole R, Salvatore M, Smaldone G, Mirabelli P. Specific lncRNA signatures discriminate childhood acute leukaemias: a pilot study. *Cancer Cell Int*. 2022 Nov 30;22(1):373.
5. **Buono L**, Corbacho J, Naranjo S, Almuedo-Castillo M, Moreno-Marmol T, de la Cerda B, Sanabria-Reinoso E, Polvillo R, Díaz-Corrales FJ, Bogdanovic O, Bovolenta P, Martínez-Morales JR. Analysis of gene network bifurcation during optic cup morphogenesis in zebrafish. *Nat Commun*. 2021 Jun 23;12(1):3866.
6. Fuhrmann JF, **Buono L**, Adelmann L, Martinez-Morales JR, Centanin L. Genetic developmental timing revealed by inter-species transplantations in fish. *Development*. 2020 Nov 23;147(22):dev192500.
7. **Buono L**, Martinez-Morales JR. Retina Development in Vertebrates: Systems Biology Approaches to Understanding Genetic Programs: On the Contribution of Next-Generation Sequencing Methods to the Characterization of the Regulatory Networks Controlling Vertebrate Eye Development. *Bioessays*. 2020 Apr;42(4):e1900187.
8. Vázquez-Marín J, Gutiérrez-Triana JA, Almuedo-Castillo M, **Buono L**, Gómez-Skarmeta JL, Mateo JL, Wittbrodt J, Martínez-Morales JR. yap1b, a divergent Yap/Taz family member, cooperates with yap1 in survival and morphogenesis via common transcriptional targets. *Development*. 2019 Jun 21;146(13):dev173286.
9. Stolper J, Ambrosio EM, Danciu DP, **Buono L**, Elliott DA, Naruse K, Martínez-Morales JR, Marciniak-Czochra A, Centanin L. Stem cell topography splits growth and homeostatic functions in the fish gill. *Elife*. 2019 May 16;8:e43747.
10. Marlétaz F, Firbas PN, Maeso I, Tena JJ, Bogdanovic O, Perry M, Wyatt CDR, de la Calle-Mustienes E, Bertrand S, Burguera D, Acemel RD, van Heeringen SJ, Naranjo S, Herrera-Ubeda C, Skvortsova K, Jimenez-Gancedo S, Aldea D, Marquez Y, **Buono L**, Kozmikova I, Permanyer J, Louis A, Albuixech-Crespo B, Le Petillon Y, Leon A, Subirana L, Balwierz PJ, Duckett PE, Farahani E, Aury JM, Mangenot S, Wincker P, Albalat R, Benito-Gutiérrez È, Cañestro C, Castro F, D'Aniello S, Ferrier DEK, Huang S, Laudet V, Marais GAB, Pontarotti P, Schubert M, Seitz H, Somorjai I, Takahashi T, Mirabeau O, Xu A, Yu JK, Carninci P, Martínez-Morales JR, Crollius HR, Kozmik Z, Weirauch MT, Garcia-Fernández J, Lister R, Lenhard B, Holland PWH, Escriva H, Gómez-Skarmeta JL, Irimia M. Amphioxus functional genomics and the origins of vertebrate gene regulation. *Nature*. 2018 Dec;564(7734):64-70.